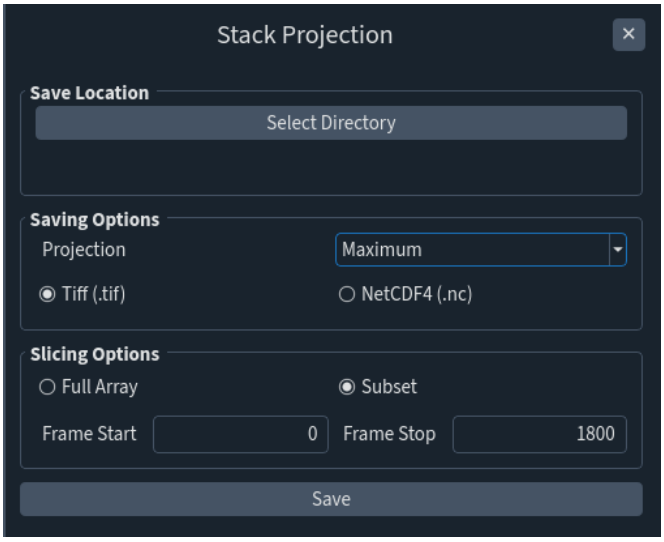
7	**Click "Export ROI"** to export tiffs/mp4s of the ROIs selected.

Stack Projection

Projections are a way to combine many z frames into one. It selects pixels of a desired intensity from every slice throughout the volume to construct a 2D image. The MCAM Stack Projection feature allows the user to select if it is constructed based on the following intensity options: maximum, minimum, mean, sum and standard deviation.



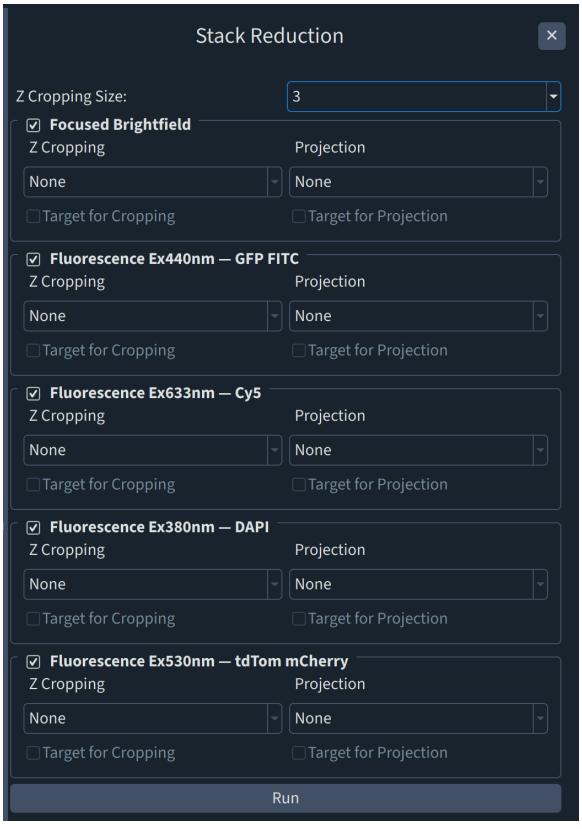
Step	Function
1	**Open the MCAM Viewer** and **click the Open Dataset button**. **Click into the stack dataset of interest**, then **click Open** in the popup to open the stack dataset in MCAM Viewer.
2	**Go to Tools > Stack Projection** to open the Stack Projection Panel.
3	Under Location **click on Select Directory** to choose the file location where the Stack Projection will be saved. As a default it will open up the file location of the stack dataset chosen in step 1.
4	Within Saving Options, **select the intended projection method and choose the save format** (either TIFF or NetCDF4).
5	Within Slicing Options **choose whether the Stack Projection** will be taken from all the frames **(Full Array)** or from a specific subset (Subset). If Subset is

	selected, define it by typing the Frame Start and Frame Stop accordingly.
6	**Click Save** to combine the stacks into the desired Stack Projection and save it.

Stack Reduction

The Stack Reduction Tool allows users to reduce the file size of stack datasets. This is achieved by 4 options:

1. Z cropping only where Z stacks are reduced to a smaller stack size with the middle Z stack being the best-in-focus plane.
2. Projection only where Z stacks are reduced to 1 plane using different Z reduction methods.
3. Z cropping+Projection, where Z-stacks are reduced followed by Projection.
4. Channel Extraction, where a subset of channels are saved without reduction through the Z dimension.



Step	Function